

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Robert L. Williams

GENERAL INFORMATION:

Name:	Hanson Brick East, LLC dba Hanson Brick
Address:	15720 John J. Delaney Drive, Charlotte, NC 28277
Date application received:	March 5, 2008
SIC/Source description:	3251 / Brick & Structural Clay Tile
EIS #:	21-197-00001
AI number:	3798
Permit number:	V-08-008

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
___ Administrative	<input checked="" type="checkbox"/> Title V
___ Minor	<input type="checkbox"/> Synthetic minor
___ Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM <sub>10</sub>	90.369 / 56.330	134.780 / 97.256
SO <sub>2</sub>	23.477	49.419
NO <sub>x</sub>	12.264	25.816
CO	42.048	88.511
VOC	1.892	3.983
Methane	1.997	4.204
HAP $\exists$ 10 tpy (by CAS)		
HF	14.542	21.240

## SOURCE PROCESS DESCRIPTION:

Hanson Brick East, LLC dba Hanson Brick operates a brick manufacturing plant at 2014 Morris Creek Road in Stanton, Kentucky. Clay is mined and stored on site. After the clay is crushed, screened and sized for manufacturing, it is mixed with sand (75% clay to 25% sand) in a pug mill while water is added. Bricks are formed through a die and cut operation. After cutting, the brick is dried and vitrified, employing two natural gas-fired tunnel kilns.

The raw material handling equipment is enclosed in a large building and consists of a receiving hopper, grinder, two screens and three associated conveyors, installed in 1971, and a primary crusher, screen and conveyor, added in 1992. Fugitive particulate emissions are collected by hoods and vented to a large baghouse located outside the building.

Two natural gas fired tunnel dryer/kilns were installed in 1971 and 1980. Both were modified to burn coal in 1984 and 1985, however, use of coal as a fuel was discontinued by 1992. Neither kiln is equipped with air pollution control equipment.

A brick crushing operation was added in 1996. Equipment includes a feed hopper, primary crusher, double screen, and conveyors. Fugitive particulate emissions are controlled by wet suppression.

Hanson Brick is currently operating under authority of Permit No. V-04-017, which will expire on February 27, 2009. Hanson Brick is requesting this permit be renewed with the new permit restricting the facility to operating only one kiln and dryer, the "Old" Lingl Kiln and Dryer [emission point 02 (02)]. The operational authority of the "New" Lingl Kiln and Dryer [emission point 03 (03)] will cease for an indefinite period of time. Since the "New" Lingl Kiln and Dryer will remain on site, the limits set forth in Permit No. V-04-017 will remain in the new permit.